



The Wisconsin Department of Public Instruction

Targeting Student Improvement: Wisconsin's Longitudinal Data System





Today

- What is an LDS?
- Wisconsin's LDS
- Access Manager, a Security Application
- The Multi-Dimensional Analytic Tool (MDAT)
- Getting Started in Your District



Why a Longitudinal Data System?

- U.S.E.D. Institute of Education Sciences State LDS Grant Program
 - DPI awarded a grant in 2005
 - \$3 million, 2006-2009
 - Initial development of our LDS following the creation of the WSLS and the first ISES collection
 - DPI awarded a second grant in 2009
 - \$5.5 million, 2009-2013
 - Continued development of our LDS
 - Data collections
 - Reporting and Analysis tools



Why Now?

- DPI recently piloted our new reporting tool, MDAT
 - November 16 – December 18
- Race to the Top
 - Places federal and public attention on state data systems



What is a Longitudinal Data System?



What is a Longitudinal Data System?

- A longitudinal data system has many different layers and components
 - Structural framework
 - Access processes (security!)
 - Reporting methods
 - Implementation/Professional development



In Sum...

- An education longitudinal data system
 - Collects and maintains detailed, high-quality student- and staff-level data
 - Includes a variety of data collections to create a COMPLETE PICTURE of student performance
 - Links these data to one another across entities (collections or data warehouses) over time
 - Makes these data accessible through reporting and analysis tools



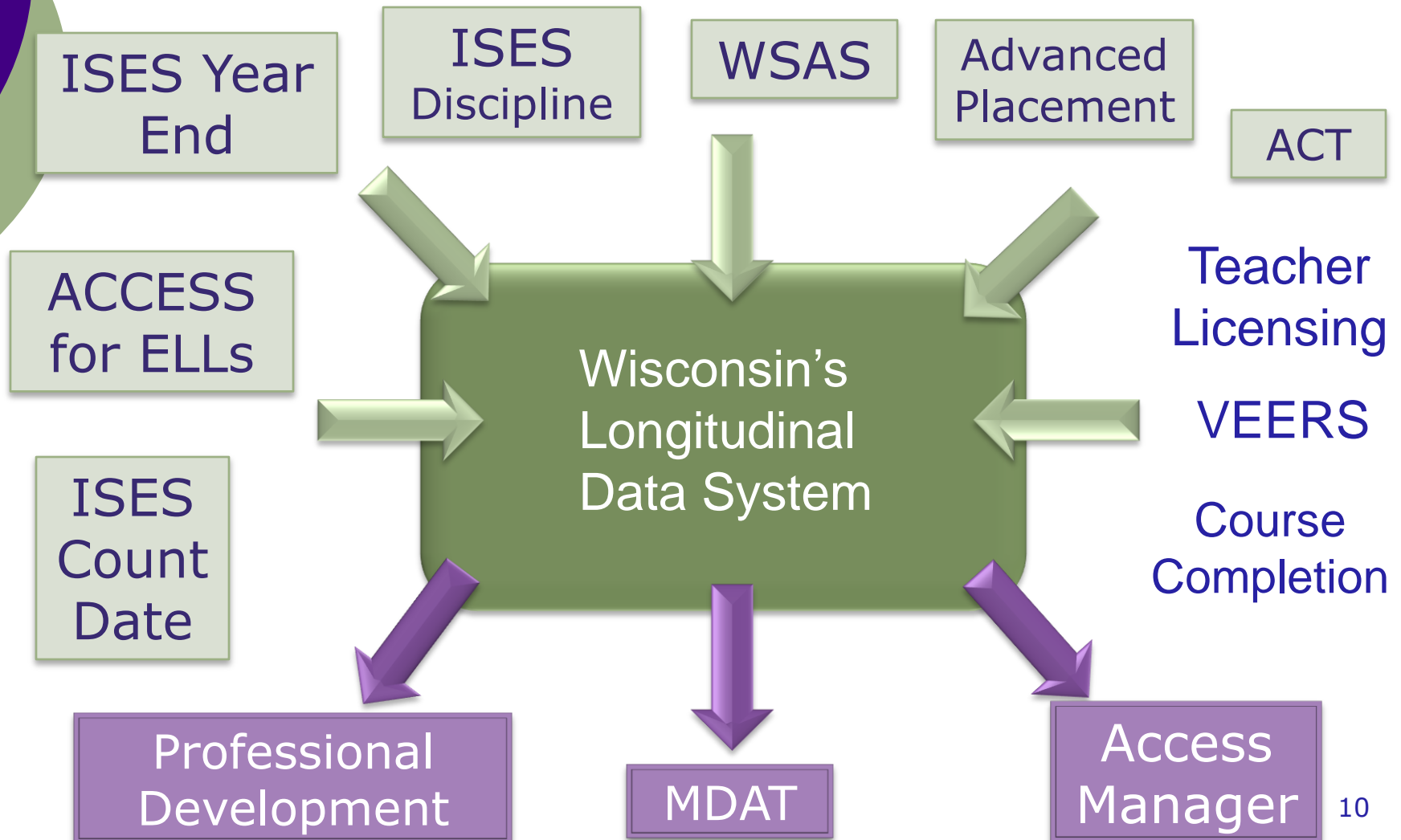
Wisconsin's Longitudinal Data System



Wisconsin's LDS

- The LDS contains many elements:
 - Data Warehouse (structural level)
 - Secure
 - Collects data from a variety of sources
 - Reporting Tools (web-based)
 - MDAT
 - Security Applications
 - Access Manager
 - Professional Development
 - Training Version of MDAT
 - Documents on DPI Website
 - Trainings with CESAs, districts

Wisconsin's Longitudinal Data System





Wisconsin's LDS: Current Applications

- Applications are tools that allow a user to
 - Manage access to certain data
 - Learn more about data or collections
 - Analyze and develop reports using data from the LDS
- DPI has two applications to-date:
 - MDAT: the Multi-Dimensional Analytic Tool
 - Access Manager



Access Manager: A Security Solution



Access Manager: A Security Solution

- Student-level data must be protected.
- Federal and Wisconsin laws protect student privacy.
- MDAT allows authorized users to view student-level information.
- DPI's solution: a security (delegated administration) tool, or Access Manager



The LDS Access Manager: Overview

- Access Manager is a tool of the LDS, one that manages...
 - Who can control access to the applications
 - Who has access to certain applications
 - What a user can see/do within an application (roles)
 - Which groups of district- or school-level student data the user can access



Access Manager

- Only those with administrative rights use access manager
 - District Superintendent
 - District Security Administrator
 - Selected and assigned role by District Superintendent
- Contact your District LDS Security Administrator for rights to use MDAT.



MDAT User Rights: Tiers of Access

- Applications may have different tier structures
- MDAT has five tiers



MDAT User Roles

Roles	Role Description
Tier 1	Student level, all variables, download option
Tier 2	Student-level, all variables
Tier 3	Student-level, no economic indicators
Tier 4	Summary* reports, all variables
Tier 5	Summary* reports, no economic indicators

**The summary reports to which you have access may contain small group sizes, and should therefore be treated as confidential.*



MDAT Tiers: Expected Uses

Roles	Expected Uses
Tier 1	Conduct in-depth analysis; combine MDAT downloads with local data
Tier 2	Repeated short-term access to student-level information
Tier 3	Improvement planning; no legitimate need to know economic status
Tier 4	Need for aggregate student level data, no student-level information necessary (reporting)
Tier 5	Data trainings, basic school-level analysis For CESA staff completing district research, school boards, classroom teachers



Back to MDAT

- Access Manager is used to assign users rights to and roles within applications
 - For now our only application is MDAT
- A little more about MDAT...



MDAT: The Multi-Dimensional Analytic Tool



Multi-Dimensional Analytic Tool

- The first analysis tool of the LDS Project.
- Allows users to display tables and graphs based on a variety of variables and filters to answer questions of their choice.
- Users have access to data and variables based on their User Role.
 - So, some users will be able to drill-down to student-level information.
 - Others will look only at summary data.
- More on Variables and Filters...



Variables vs. Filters

○ **Variables**

- Investigate a relationship.
- Compare different ideas (e.g. grade level and English proficiency) within a common metric (e.g. one year change in scale score.)

○ **Filters**

- Define which individuals or groups will be included in the analysis.
- Refine results of your guiding question.



Variables and Filters

- Users have access to data and variables based on their access level (assigned by the district administrator).
 - Example:
 - Users with Tier 3 or Tier 5 access will not be able to select the filters or variables associated with the economic indicator data.



MDAT Data

- Data Sources:
 - WKCE scores from WKCE results
 - Other data from WSAS and/or ISES:
 - Third Friday of September
 - Year End
 - Discipline Collection
 - Demographic Data
- Application uses three years of WKCE data
 - Shows longitudinal cohort growth from one school year to the following school year.
 - Example: change from 2007-2008 school year (November test) to 2008-2009 school year (November test)

MDAT: A Look at the Application



The screenshot shows the login interface for the MDAT application. At the top is a header banner with the Wisconsin Department of Public Instruction logo, which features a stylized blue figure of a person holding a child. Below the banner, the text "Please log in" is centered. The login form consists of two input fields: "User Name" with a yellow background and "Password" with a white background. A "Log In" button is positioned to the right of the password field. Below the login fields, a message states: "Please do not bookmark this page, bookmark the next page." At the bottom of the form, there are two links: "Forgot User Name/Password?" and "Sign up for new account". A green-bordered box at the bottom of the page contains the text "This is the login screen."

WISCONSIN DEPARTMENT OF PUBLIC INSTRUCTION

Please log in

User Name

Password

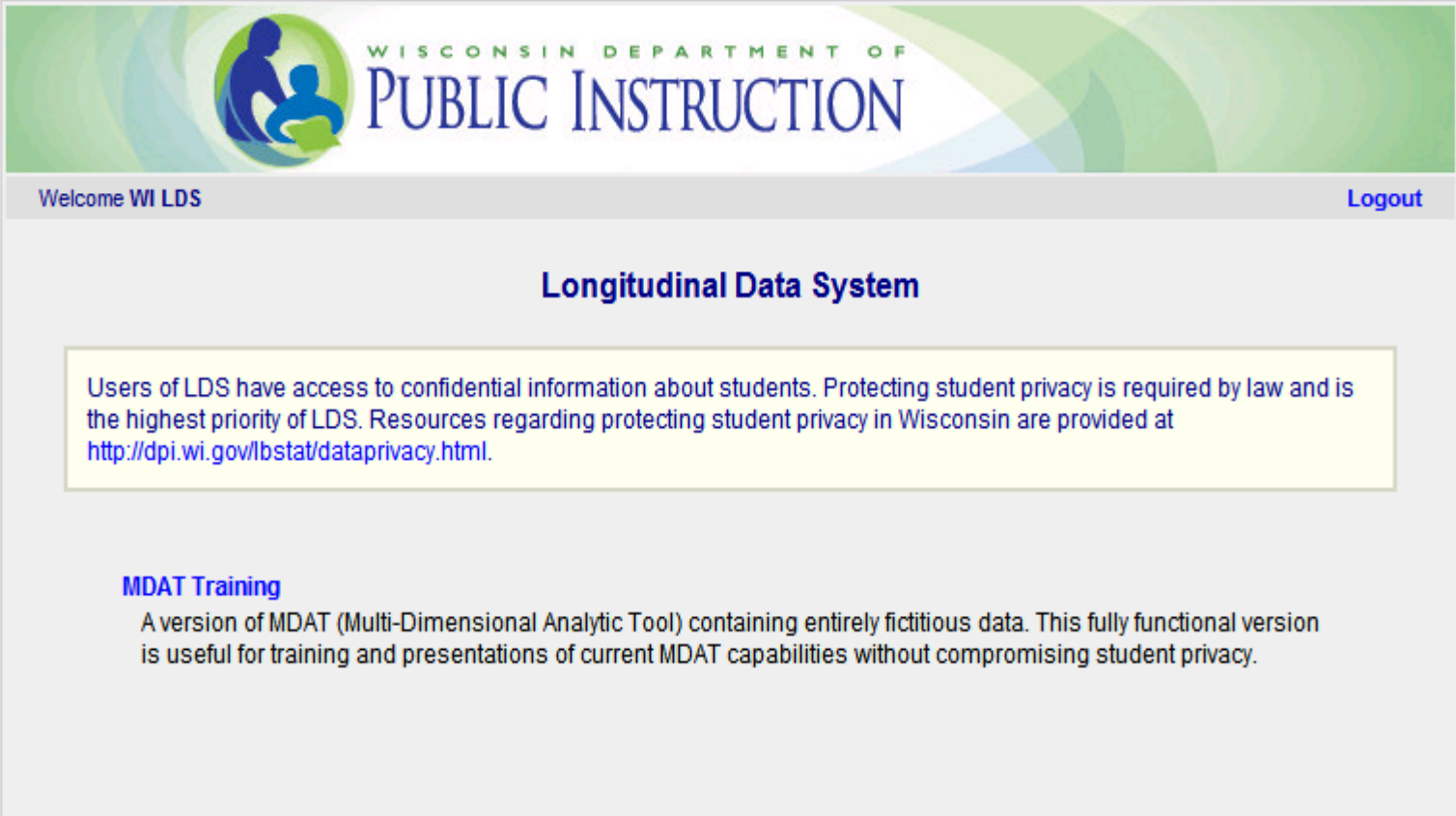
Log In

Please do not bookmark this page, bookmark the next page.

[Forgot User Name/Password?](#) [Sign up for new account](#)

This is the login screen.

MDAT: A Look at the Application



The screenshot shows the landing page of the Wisconsin Department of Public Instruction's Longitudinal Data System (LDS). The header features the department's logo and name. Below the header, there is a navigation bar with 'Welcome WI LDS' and a 'Logout' link. The main content area is titled 'Longitudinal Data System'. A yellow box contains a privacy notice for users of the LDS. Below this, there is a section for 'MDAT Training' which describes a version of the MDAT tool used for training purposes.

WISCONSIN DEPARTMENT OF
PUBLIC INSTRUCTION

Welcome WI LDS [Logout](#)

Longitudinal Data System

Users of LDS have access to confidential information about students. Protecting student privacy is required by law and is the highest priority of LDS. Resources regarding protecting student privacy in Wisconsin are provided at <http://dpi.wi.gov/lbstat/dataprivacy.html>.

MDAT Training

A version of MDAT (Multi-Dimensional Analytic Tool) containing entirely fictitious data. This fully functional version is useful for training and presentations of current MDAT capabilities without compromising student privacy.

This is the LDS landing page.
Select Multi-Dimensional Analytic Tool.

MDAT: A Look at the Application



Welcome WILDS
Access: MDAT Tier 1
[Secure Home](#)
[Logout](#)

Quick Links

[About the Data](#)
[Using MDAT](#)
[Glossary](#)
[FAQ](#)

Other Resources

[LDS Home](#)
[Data Access, Analysis & Reporting Tools](#)
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Multi-Dimensional Analytic Tool

-- Report Options --

Start Over Next >

☐ Select one of the Subject Options - Select a subject variable or a subject filter

☐ Select one of the Grade Options - Select a grade variable or a grade filter

☐ Select Var1 - Select a variable for Var1

Data Topic:
One-year Change in WKCE Scale Scores (Gr 4-8 only) ☐

District:
School:

Year of Data:
2007-08 ☐ 2008-09 ☐

Variables

choose one variable from var1 and one from Var2 (optional)

Var1 Var2

clear clear

Filters

Subjects or Content Standards

clear

ACADEMIC SUBJECTS

☐ Reading

☐ Mathematics

Demographics

clear

ECONOMIC STATUS (WSAS)

☐ Economically Disadvantaged

☐ Not Economically Disadvantaged or No Data

Demographics

clear

ENGLISH LANGUAGE PROFICIENCY (WSAS)

☐ ELL/LEP (ELP Code 1-5)

☐ ELP Code 1

☐ ELP Code 2

Subjects or Content Standards

Reading / Math ☐ ☐

Demographics

Disability Status (WSAS) ☐ ☐

Economic Status (WSAS) ☐ ☐

ELP Code (WSAS) ☐ ☐

English Proficiency Status (WSAS) ☐ ☐

ESEA Group (WSAS) ☐ ☐

Gender (WSAS) ☐ ☐

Grade Level (WSAS) ☐ ☐

This is MDAT's "Front" Page. From here, you select variables and filters to answer your research question.

Variables

Filters

Subjects or Content Standards

Reading / Math

Demographics

Disability Status (WSAS)

Economic Status (WSAS)

ELP Code (WSAS)

English Proficiency Status (WSAS)

ESEA Group (WSAS)

Gender (WSAS)

Grade Level (WSAS)

Subjects or Content Standards

ACADEMIC SUBJECTS

Reading

Mathematics

Demographics

ECONOMIC STATUS (WSAS)

Economically Disadvantaged

Not Economically Disadvantaged or No Data

ENGLISH LANGUAGE PROFICIENCY (WSAS)

ELL/LEP (ELP Code 1-5)

ELP Code 1

ELP Code 2



The LDS Home Page



LDS Home Page

- LDS Overview
- Information on different applications of LDS Project
- Step-by-step guides to MDAT and Access Manager
- Information about WAMS
- Directions for getting access to MDAT and Access Manager
- Information about IES Grants



Exploring Student Data with MDAT



Exploring Student Data: Developing a Research Question

- Sample queries on the LDS Home Page
- Our research question:
 - How does the math achievement of students with disabilities compare to non-disabled students at various grades in our district?
 - **Variable 1: Disability status**
 - **Variable 2: Grade level**
 - **Filter 1: Math**

Welcome Laura Pinsonneault

Access: MDAT Tier 1

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Multi-Dimensional Analytic Tool

-- Report Options --

MDAT1

[Start Over](#)

[Next >>](#)

Data Topic:

One-year Change in WKCE Scale Scores (Gr 4-8 only)

District:

Cardiff - 96600

School:

DISTRICT-WIDE SUMMARY

Year of Data:

2007-08

2008-09

Variables

choose one variable from Var1 and one from Var2 (optional)

Var1

Var2

[clear](#)

[clear](#)

Subjects or Content Standards

Reading / Math

Subjects or Content Standards

[clear](#)

ACADEMIC SUBJECTS

Reading

Mathematics

Demographics

Disability Status (WSAS)

Economic Status (WSAS)

ELP Code (WSAS)

English Proficiency Status (WSAS)

ESEA Group (WSAS)

Gender (WSAS)

Grade Level (WSAS)

Native Language Group (CD)

Primary Disability (WSAS or CD)

Race/Ethnicity (WSAS)

Demographics

[clear](#)

ECONOMIC STATUS (WSAS)

Economically Disadvantaged

Not Economically Disadvantaged or No Data

[clear](#)

ENGLISH LANGUAGE PROFICIENCY (WSAS)

☐

ELL/LEP (ELP Code 1-5)

☐

ELP Code 1

☐

ELP Code 2

☐

ELP Code 3


☐

ELP Code 4



Welcome Laura Pinsonneault
Access: MDAT Tier 1

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Multi-Dimensional Analytic Tool

-- Verify Report Options --

MDAT1

Verify report options and select Change Report Options or Submit.

[<< Change Report Options](#)

[Submit](#)

District	Cardiff - 96600
School	DISTRICT SUMMARY
Data Topic	One-year Change in WKCE Scale Scores
Year of Data	2008-09

Variables

Variable1	Disability Status (WSAS)
Variable2	Grade Level (WSAS)

Filters

Academic Subject	Mathematics
Economic Status (WSAS)	- None -
English Language Proficiency (WSAS)	- None -
Gender (WSAS)	- None -
Grade Level (WSAS)	- None -
Primary Disability (WSAS or CD)	- None -
Race/Ethnicity (WSAS)	- None -
FAY Status (WSAS)	- None -
Years Enrolled (CD)	- None -
Charter Status	- None -

[<< Change Report Options](#)

[Submit](#)

Welcome Laura Pinsonneault
Access: MDAT Tier 1

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Download Options

[Download Summary Report](#)

Graph Options

[Swap Var1/Var2](#)

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Multi-Dimensional Analytic Tool

-- Report Results --

MDAT1

Student details not available for state/district summary.

[<< Change Report Options](#)

District: **Cardiff - 96600**

School: **DISTRICT SUMMARY**

Data Topic: **One-year Change in WKCE Scale Scores**

Year of Data: **2008-09**

Variable1: **Disability Status (WSAS)**

Variable2: **Grade Level (WSAS)**

Subject: **Mathematics**

Positive Change

Negative Change

No Change

Prior Yr Score N/A

Selected Yr Score M

Disability Status (WSAS) / Grade Level (WSAS)

SwD

Grade 4 (1)

Grade 5 (5)

Grade 6 (31)

Grade 7 (31)

Grade 8 (29)

SwD

Grade 4 (32)

Grade 5 (21)

Grade 6 (146)

Grade 7 (192)

Grade 8 (169)

200

250

300

350

400

450

500

550

600

650

700

750

Proficient Cut Score: Math

Grade 4: 438

Grade 5: 463

Grade 6: 485

Grade 7: 504

Grade 8: 513

Variable 1	Variable 2					
Disability Status (WSAS)	Grade Level (WSAS)	# of Students in Group	# of Students with Scores in Selected Year and Prior Year	Mean Score Prior Year	Mean Score Selected Year	One-Year Change in Score Means
SwD	Grade 4	2	1	439.0	473.0	34.0
	Grade 5	7	5	411.8	457.4	45.6
	Grade 6	45	31	422.9	429.4	6.5
	Grade 7	45	31	446.5	467.3	20.8
	Grade 8	41	29	460.9	449.3	-11.6
SwD	Grade 4	34	32	441.1	474.3	33.2
	Grade 5	21	21	477.2	510.6	33.4
	Grade 6	159	146	464.2	483.6	19.4
	Grade 7	192	192	485.0	510.3	25.3
	Grade 8	176	169	507.4	520.7	13.3



MDAT Example

- How are students with disabilities achieving in math?
- Drill Down:
 - **Do students with disabilities who have attended our district for three or more years perform better than students who have attended for fewer years?**
 - Variable 1: Disability status
 - Variable 2: Grade level
 - Filter1: Math
 - **Filter2: Years enrolled in this district (3 or more)**

- ☐ Hispanic
- ☐ American Indian/Alaska Native
- ☐ White Not Hispanic
- ☐ Race/Ethnicity N/A

Demographics (Mobility)

[clear](#) **FAY STATUS (WSAS)**

- ☐ Enrolled in District FAY
- ☐ Enrolled in School FAY
- ☐ Not Enrolled in District FAY
- ☐ Not Enrolled in School FAY

[clear](#) **YEARS ENROLLED THIS SCHOOL/DISTRICT (CD)**

- ☐ In this/single district less than 1 full year
- ☐ In this/single district at least 1 full year
- ☐ In this/single district at least 2 full years
- ☒ In this/single district at least 3 full years
- ☐ In this/single school less than 1 full year
- ☐ In this/single school at least 1 full year
- ☐ In this/single school at least 2 full years
- ☐ In this/single school at least 3 full years

More Filters

[clear](#) **CHARTER STATUS**

- ☐ Charter School
- ☐ Not a Charter School

Welcome Laura Pinsonneault
Access: MDAT Tier 1

[Secure Home](#)
[Logout](#)

Download Options

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Graph Options

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Multi-Dimensional Analytic Tool

-- Report Results --

MDAT1

Student details not available for state/district summary.

[<< Change Report Options](#)

District: **Cardiff - 96600**

School: **DISTRICT SUMMARY**

Data Topic: **One-year Change in WKCE Scale Scores**

Year of Data: **2008-09**

Variable1: **Disability Status (WSAS)**

Variable2: **Grade Level (WSAS)**

Subject: **Mathematics**

Years Enrolled: **In this/single district at least 3 full years**



Positive Change



Negative Change



No Change



Prior Yr Score N/A



Selected Yr Score N/A

Disability Status (WSAS) / Grade Level (WSAS)

SwD

Grade 4	(1)
Grade 5	(5)
Grade 6	(25)
Grade 7	(26)
Grade 8	(25)

SwD

Grade 4	(28)
Grade 5	(20)
Grade 6	(122)
Grade 7	(180)
Grade 8	(142)

200 250 300 350 400 450 500 550 600 650 700 750



MDAT Example

- What if we look at the data for a particular school?
 - This will allow us to drill down to the student level.

Download Options

[Download Summary Report](#)

Graph Options

[Swap Var1/Var2](#)[Show 2007-08](#)[Zoom In](#)[Zoom Out](#)[Print Version](#)[Having difficulty printing?](#)

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[LDS Home](#)[Data Access, Analysis & Reporting Tools](#)[Disclaimer](#)District: **Cardiff - 96600**School: **Bath Mid - 50500**Data Topic: **One-year Change in WKCE Scale Scores**Year of Data: **2008-09**Variable1: **Disability Status (WSAS)**Variable2: **Grade Level (WSAS)**Subject: **Mathematics**Years Enrolled: **In this/single district at least 3 full years**

Positive Change



Negative Change



No Change



Prior Yr Score N/A



Selected Yr Score N/A

Disability Status (WSAS) / Grade Level (WSAS)

SwD

Grade 6 (23)

Grade 7 (26)

Grade 8 (25)

SwoD

300 350 400 450 500 550 600 650 700 750

Grade 4: 438 | Grade 5: 463 | Grade 6: 485 | Grade 7: 504 | Grade 8: 513

We can now select the number of students in group for student-level detail

Variable 1	Variable 2	# of Students in Group	# of Students with Scores in Selected Year and Prior Year	Mean Score Prior Year	Mean Score Selected Year	One-Year Change in Score Mean
SwD	Grade 6	35	23	414.6	418.9	
	Grade 7	39	26	446.0	467.0	
	Grade 8	35	25	461.3	449.1	
SwoD	Grade 6	100	100	466.4	483.4	
	Grade 7	180	180	485.6	510.1	
	Grade 8	142	142	507.2	522.0	

[Download Student Detail](#)

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Tier One users
will be able to
download this
student data

Multi-Dimensional Analytic Tool

-- Student Detail --

The Student
Detail Page

<< Close Student Detail

Data Topic: [One-year Change in WKCE Scale Scores](#)

Variable1: [Disability Status \(WSAS\)](#)

Subject: [Mathematics](#)

Years Enrolled: [In this/single district at least 3 full years](#)

School: **Bath Mid - 50500**

Year of Data: [2008-09](#)

Variable2: [Grade Level \(WSAS\)](#)

35 students found.

Last Name	First Name	Birth Date	Disability Status (WSAS)	Grade Level (WSAS)	Score Prior Year	Score Selected Year	One-Year Change in Score	Std Err of Score for Selected Year	Prof Category Prior Year	Pr Cate Sele Ye
Bailey	Peter	01-16-1996	SwD	Grade 6	270				Min	
Beakley	Joe	07-22-1997	SwD	Grade 6	391	440	49	16	Min	M
Cat	Betty	05-13-1996	SwD	Grade 6	415	456	41	13	Min	M
Cat	Witch	03-18-1996	SwD	Grade 6	428	420	-8	19	Min	M
Darling	Betty	05-15-1996	SwD	Grade 6		320		58		M
Darling	Elmer	10-02-1996	SwD	Grade 6	369	368	-1	32	Min	M
Duck	Augie	08-22-1996	SwD	Grade 6						
Flintstone	Quick Draw	09-10-1996	SwD	Grade 6						
Glomgold	Baba	12-21-1996	SwD	Grade 6	505	427	-78	18	Adv	M
Glomgold	George	02-14-1996	SwD	Grade 6	394	350	-44	40	Min	M
Glomgold	Joe	04-10-1995	SwD	Grade 6	494	487	-7	11	Prof	Pr
Glomgold	Super	11-22-1996	SwD	Grade 6	416	449	33	14	Min	M
Gonzales	George	04-17-1997	SwD	Grade 6		478		11		Ba
Heathcote	Marvin	06-11-1996	SwD	Grade 6						



Getting Started in Your District



MDAT General Availability

- Begins next week!
- DPI will contact District Superintendents and District Assessment Coordinators this week with information about MDAT.
- Interested in getting rights to MDAT?
 - Follow the steps on page one of your handout.



External Access: First Step

- All external Users will require a WAMS ID to log in to Access Manager or MDAT.
- WAMS = Web Access Management System
- Refer to the WAMS Home Page or the LDS Home Page for more information about WAMS.



External Access

- Initial rights to use Access Manager may be granted only to District Superintendents.
 1. Superintendents complete the Superintendent Authorization Form.
 - If desired, he/she may include information for their District LDS Security Administrator on form.
 2. Email the form to LDShelp@dpi.wi.gov.
 3. DPI sets up the Superintendent (and, if nominated by Superintendent, the District LDS Security Administrator) with rights to use Access Manager.



External Access

4. DPI emails Superintendent and Security Administrator to notify them of setup.
5. Security Administrator manages access to MDAT via Access Manager.

Questions should go to LDShelp@dpi.wi.gov



The Future of Wisconsin's LDS




The Future of Wisconsin's LDS

- Wisconsin's LDS will include
 - A New WINSS Home Page
 - Enhancements to MDAT
 - Growth reports (reporting tools)
 - Postsecondary data
 - National Student Clearinghouse

The Future of Wisconsin's LDS

[DPI Home](#)[Data Analysis](#)[Standards & Assessment](#)[School Improvement](#)[Best Practices](#)[Search](#)



Welcome to WINSS!

Wisconsin's Information Network for Successful Schools (WINSS) is a resource for educators, parents and community members interested in educating the hearts and minds of Wisconsin's children. WINSS provides information on what we want our children to know and be able to do; how students are performing each year; and how our schools are staffed and funded. WINSS also describes the seven characteristics of successful schools - and shares resources that are central to successful schools including leadership, planning tools, professional development and community partnerships.

Data


- A to Z Topics
- Disclaimer
- Downloads
- Performance Reports

Resources


- DPI Home
- Sitemap
- Using WINSS
- What's New

Longitudinal Data System


- LDS Information
- Secure Login




DATA analysis
achievement, behavior, demographics, and resources



STANDARDS and **ASSESSMENT**
expectations and measures of student learning



SCHOOL IMPROVEMENT
surveys and tools for improvement planning



best **PRACTICES**
ideas for successful schools

49

State ☒

MDAT Enhancements

State (5762)





New Reporting Methods

- Growth Reports
 - OEA commissioned two research studies on growth reporting methods:
 - An Exploration of Seven Growth Models Using the Wisconsin Knowledge and Concepts Examination
 - Harold Doran (AIR), and Doug Bates (UW)
 - Wisconsin Value-Added Model: A Demonstration Project Final Report
 - Rob Meyer, et al (UW-VARC)



The Future of Wisconsin's LDS: Postsecondary Data

- National Student Clearinghouse
 - Non-profit organization
 - Source of student degree and enrollment verification
 - Collects data from over 3,300 postsecondary institutions
 - Nationwide
 - Over 92% of U.S. postsecondary students
 - All types of institutions
 - Public and private
 - Two- and four-year
 - Technical colleges

A decorative graphic on the left side of the slide, consisting of a large purple circle partially visible and a horizontal purple line extending across the top of the slide.

Questions?

For help, more information...

- Email

- LDShelp@dpi.wi.gov

- DPI LDS Website

- <http://dpi.wi.gov/lds/index.html>
- More about MDAT and Access Manager
 - Overviews and step-by-step guides to each application